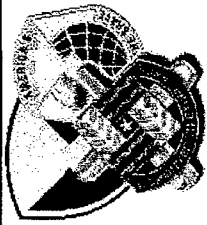
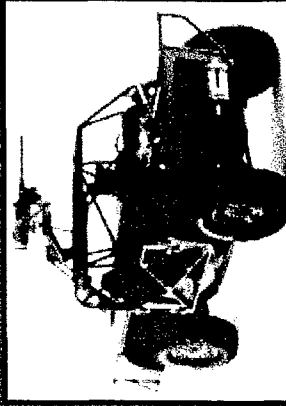
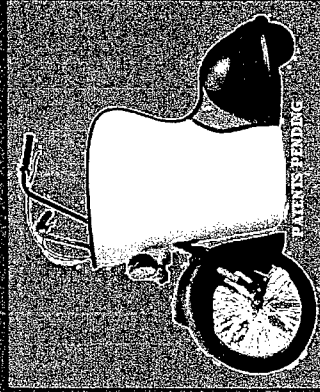
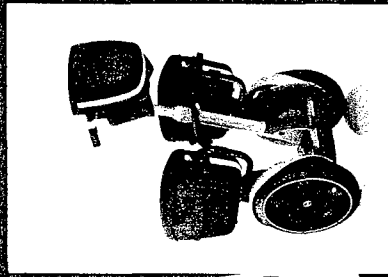




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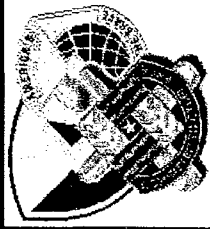
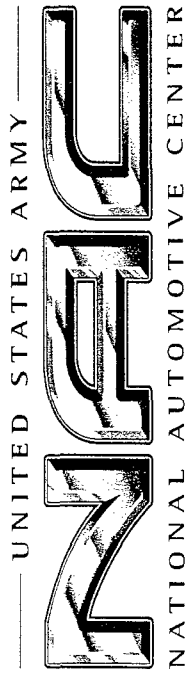


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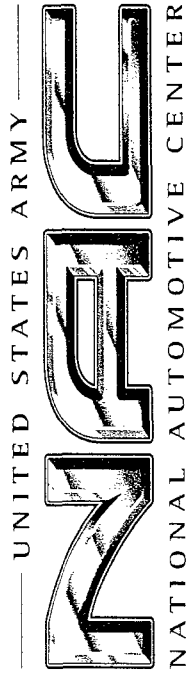
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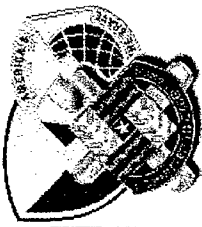
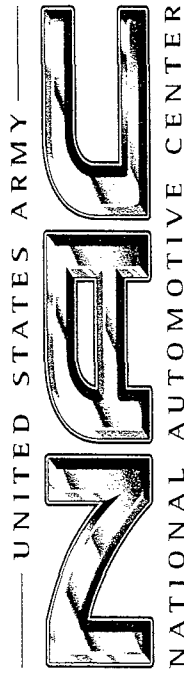
Outline

- Introduction – Identifying DoD Personnel/Soldier Mobility Needs
- Mission and Platform Profiles
 - Unmanned Autonomous or Semi-autonomous Intelligent Platform
 - Manned, One- or Two-Man Mobility Transport
 - Robotic “Follower”
- Various Platforms Reviewed
 - Segway HT
 - American Chariot
 - John Deere Hybrid-electric Gator
 - Wavecrest Electric Motorcycle (Kawasaki KX-125)
- References
- Contact Information



Identifying Mobility Needs

- **Soldier Mobility/Transportation**
 - Rear-Area Logistical Support
 - Flight Line Support
 - Unmanned Platform System
 - Special Operations Personnel
- **Administrative and Security Personnel**
 - Inter-building Transport Saves Fuel on Fleet Vehicles
 - Perimeter Security Patrol
 - Military Police (MPs) — Force Protection



Mission Profiles

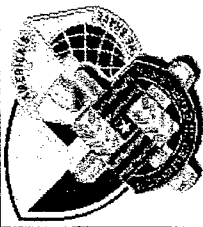
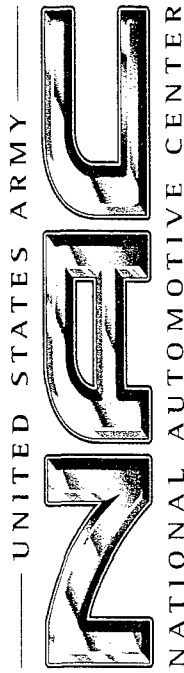
Unmanned

- Cargo-Hauling Assistance for Foot Patrol Soldiers
- Bomb Detection/Disarmament
- Forward-area Reconnaissance
- Air-Dropped Package Retrieval
- Remote-Operated Sentry

Manned

- Perimeter Security Patrol (Military Police)
- Small Cargo Hauling (<150lbs.)
- Homeland Defense
- Special Forces Mobility
- Inter-building Transport of Administrative Personnel

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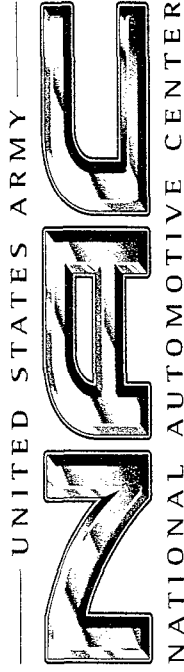
Platform Profiles

Unmanned

- Radio-Controlled American Chariot
- Remote-Tele-Operated Segway (DARPA)
- John Deere AWARE Gator

Manned

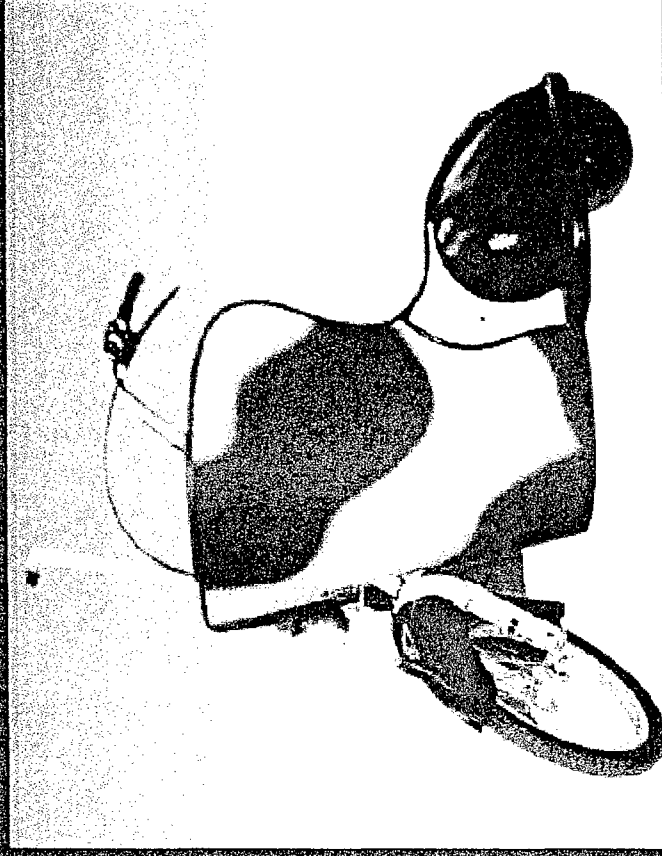
- American Chariot (Military Police)
- Segway (Admin. Support Personnel Transport)
- John Deere Gator Hybrid-electric Gator



American Chariot

Features

- Drivetrain: 2.5 HP Electric Motors
- Top Speed: 20 MPH
- Range: 12-15 Miles
- Power Source: 2-12V, 40Ah Batteries
- Capacity: 350 lbs.
- Maximum Grade: 12%



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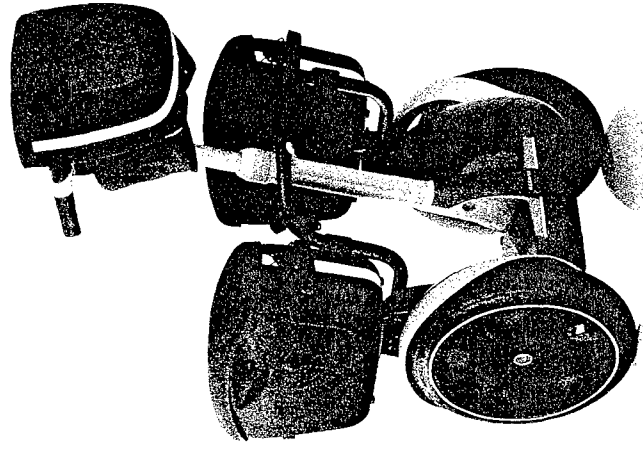
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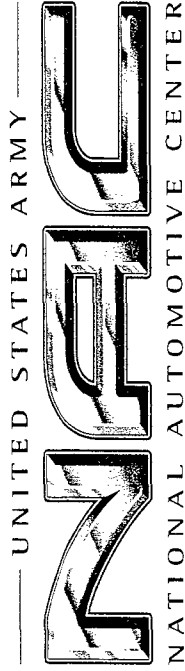
Segway HT

Features

- Self-Balancing Technology
- Electric Drivetrain
- Range: 5-15 Miles
- Top Speed: 6-12.5 MPH
- Payload:
 - 250 lbs. (Passenger)
 - 75lbs. (Cargo)
- Weight: 95 lbs.



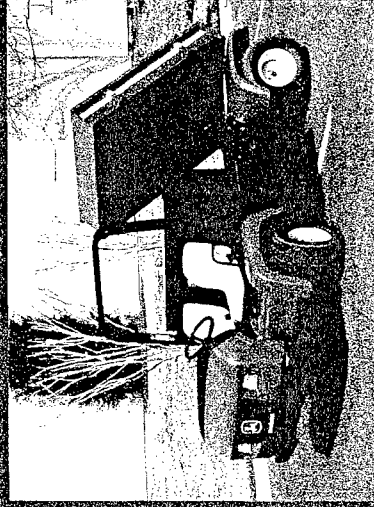
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John Deere Gators

Features

- Hybrid-Electric Drivetrain:
 - Diesel-or Fuel Cell-Battery
 - 4-Wheel Drive/Steering
 - Fully Independent Suspension
- M-Gator:
 - Unmanned, Autonomous
 - AWARE version
 - Camouflage Standard Version



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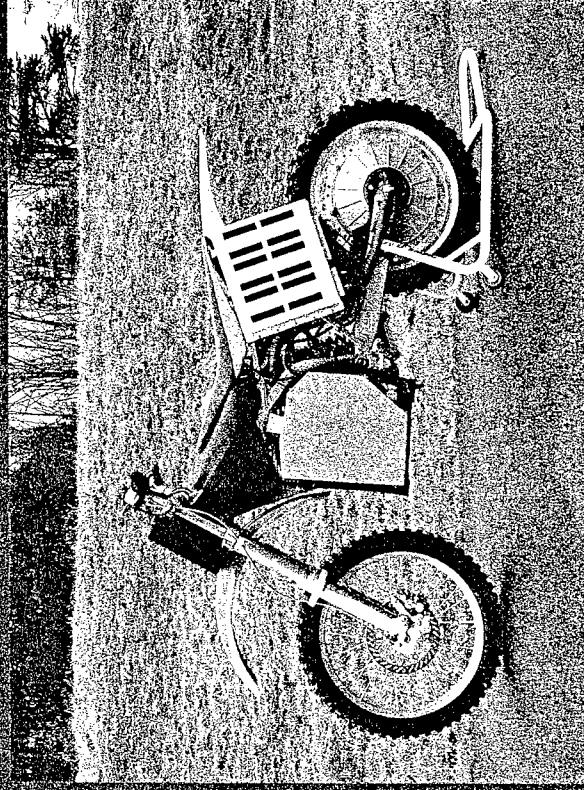
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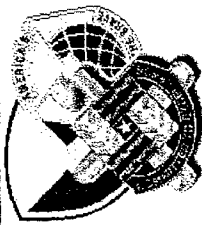
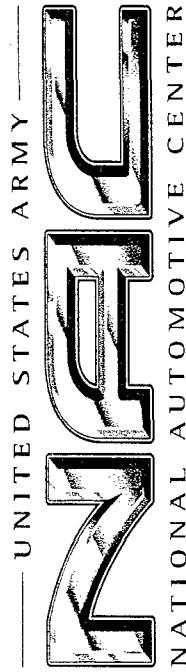
Wavecrest Electric Motorcycle

Features

- Electric Drivetrain:
 - Fuel Cell or Battery Power
 - In-Hub Motor
- Load: 350lbs Rider+Cargo
- Range: 63 mi. (optional)
- Top Speed: 63 MPH
- 0-60 MPH: 6.5s

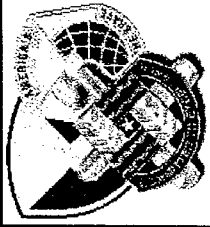
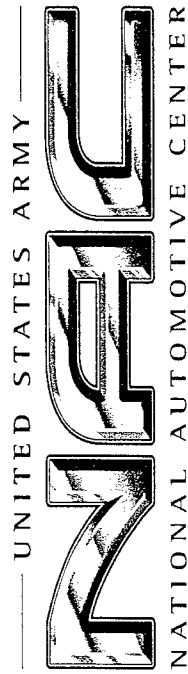


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- John Deere Website: www.deere.com
- Wavecrest Labs. Website: www.wavecrestlabs.com



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